

AUS920010995US1
 Cook
 Method, Apparatus, and Program for a State Machine Framework

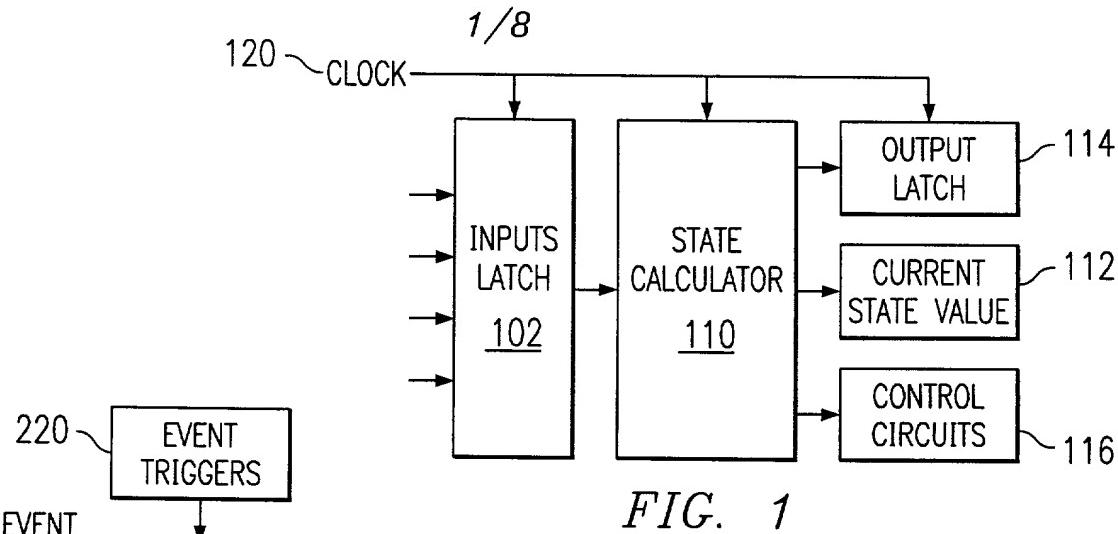


FIG. 1

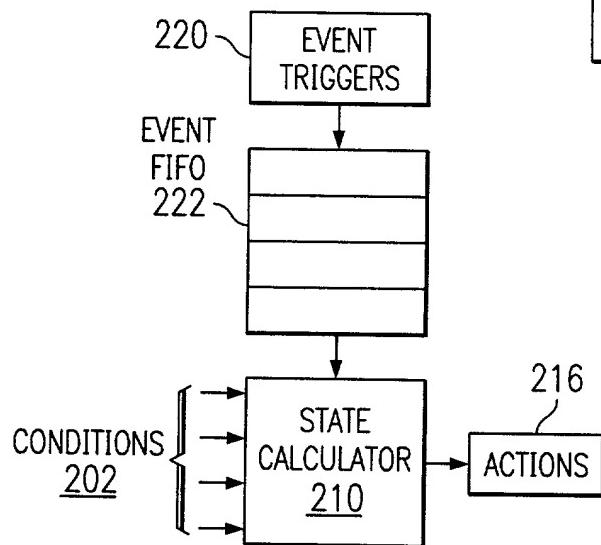


FIG. 2

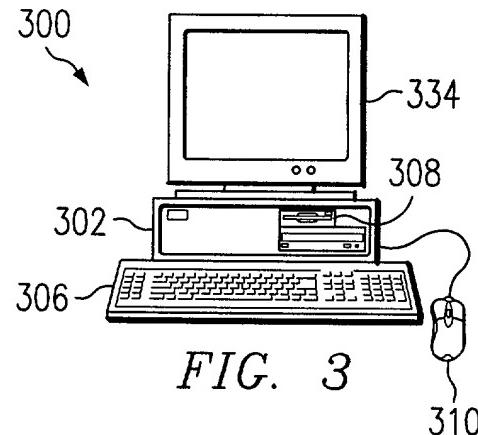


FIG. 3

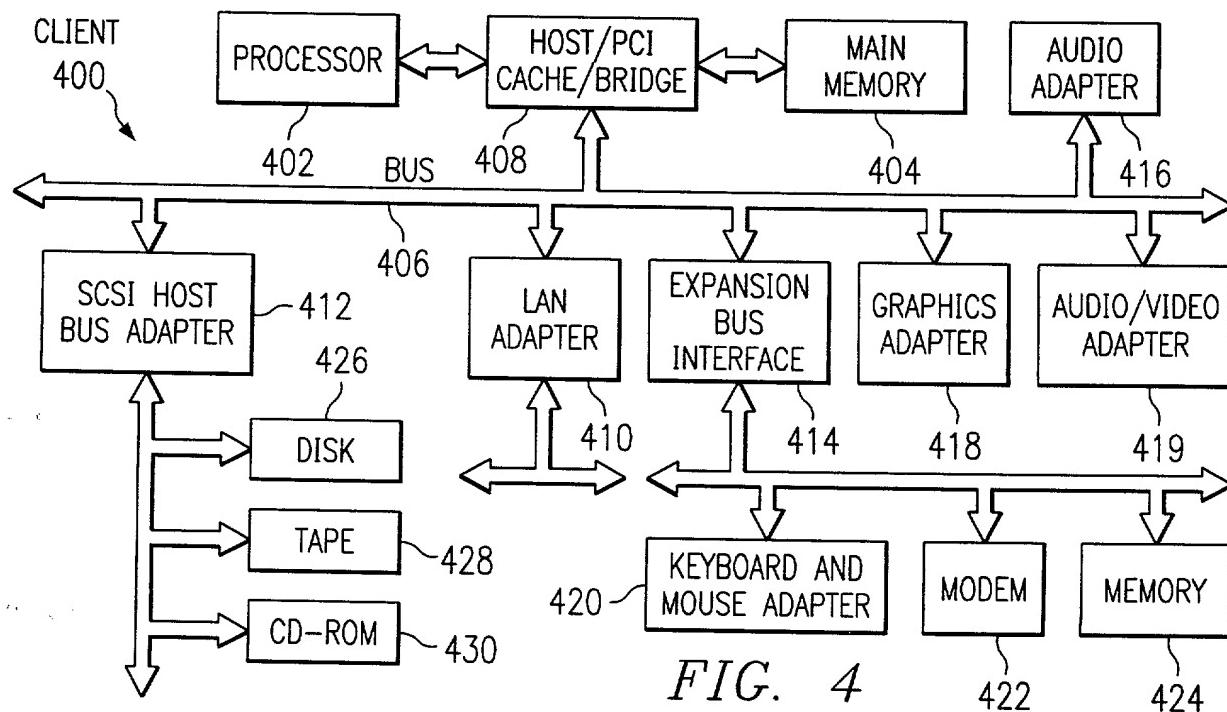


FIG. 4

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STATES	
ID	DESCRIPTION
S1	NEW
S2	STARTING
S3	RUNNING
S4	PAUSED
S5	STOPPING
S6	STOPPED
S7	ERROR

ACTIONS	
ID	DESCRIPTION
A1	START EMBEDDED TASK
A2	STOP EMBEDDED TASK
A3	PAUSE TRACE SUBSYSTEM
A4	RESUME TRACE SUBSYSTEM

INPUTS	
ID	DESCRIPTION
TSV	EMBEDDED TASK STATE VARIABLE {"NEW", "STARTING", "RUNNING", "STOPPING", "STOPPED", "ERROR"}
CSV	EMBEDDED COMMAND STATE VARIABLE {"NO-OP", "START", "STOP", "PAUSE", "RESUME"}

CONDITIONS		
ID	CSV VALUE	TSV VALUE
C1	NO-OP	NEW
C2	START	NEW OR STARTING
C3	START	RUNNING
C4	STOP	NEW
C5	--	ERROR
C6	STOP	STARTING OR RUNNING
C7	--	STOPPED
C8	RESUME	RUNNING
C9	STOP	RUNNING
C10	PAUSE	RUNNING
C11	--	STOPPING

EVENTS	
ID	DESCRIPTION
E1	STATE CHANGED EVENT

TRIGGERS	
ID	DESCRIPTION
T1	STATE CHANGED EVENT
T2	NEW COMMAND WRITTEN

FIG. 5A

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FIG. 5B

STATE TABLE							
CURRENT STATE/NEXT STATE	S1	S2	S3	S4	S5	S6	S7
S1	C1 --- ---	C2 A1 E1	C3 --- E1	X	X	C4 --- E1	C5 --- E1
S2	X	C2 --- ---	C3 A4 E1	X	C6 A2, A3 E1	C7 --- E1	C5 --- E1
S3	X	X	C3 C8 --- --- --- ---	C10 A3 E1	C9 A2, A3 E1	C7 A3 E1	C5 A3 E1
S4	X	X	C8 A4 E1	C10 --- ---	C9 A2, A3 E1	C7 A3 E1	C5 A3 E1
S5	X	X	X	X	C11 --- ---	C7 --- E1	C5 --- E1
S6	X	X	X	X	X	C7 --- ---	X
S7	X	X	X	X	X	X	C5 --- ---

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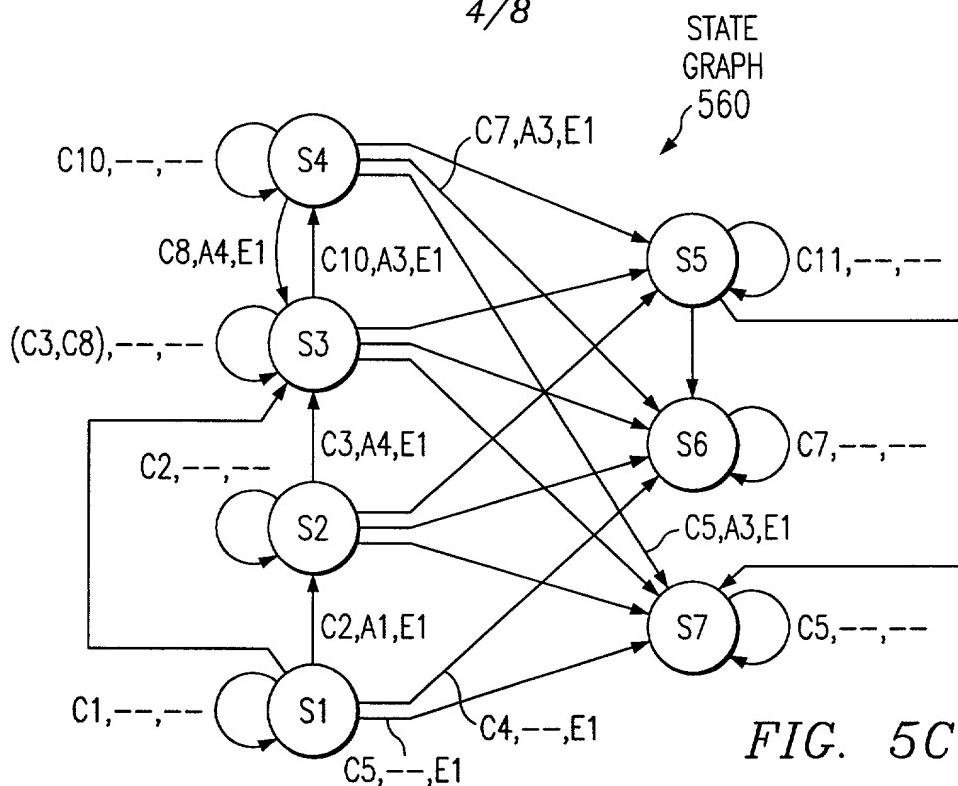


FIG. 5C

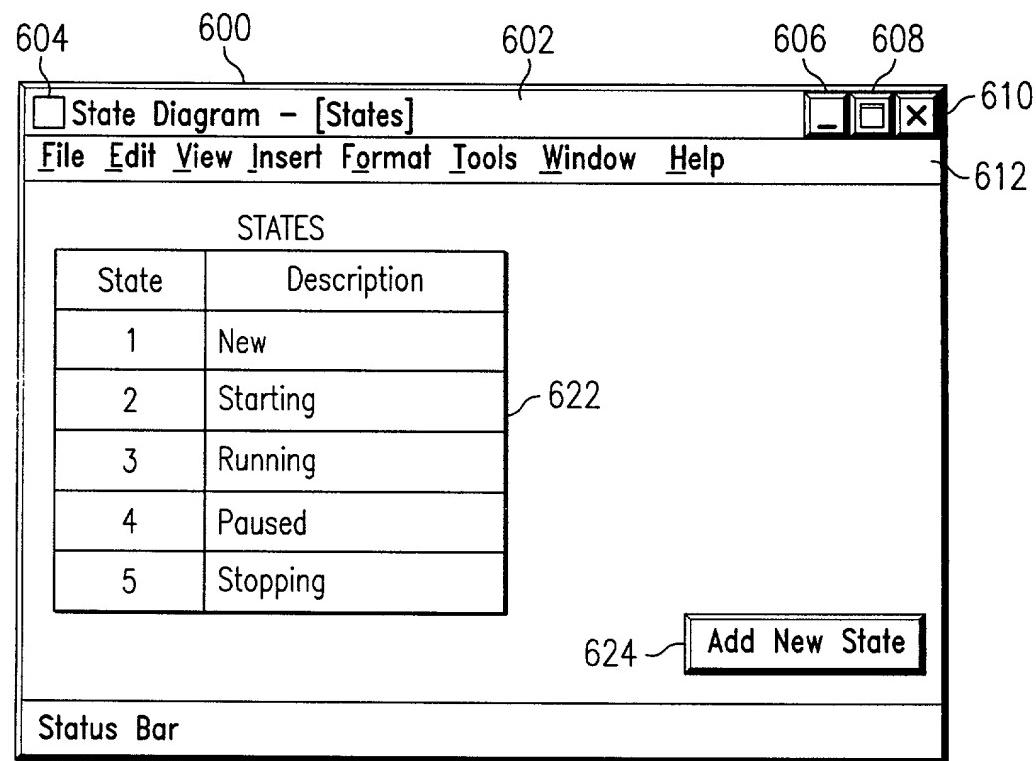


FIG. 6A

FIG. 6B

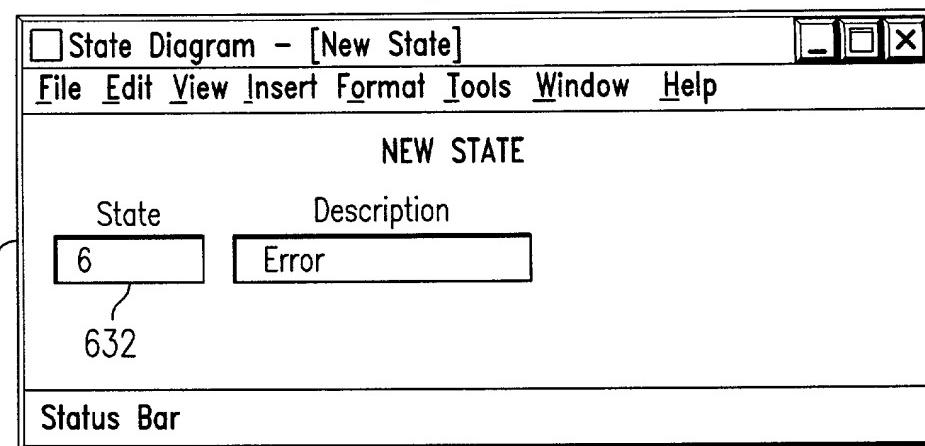


FIG. 6C

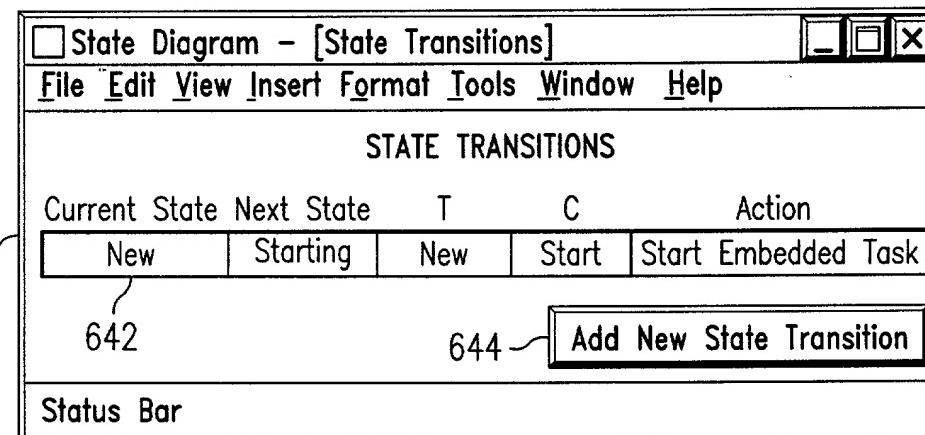
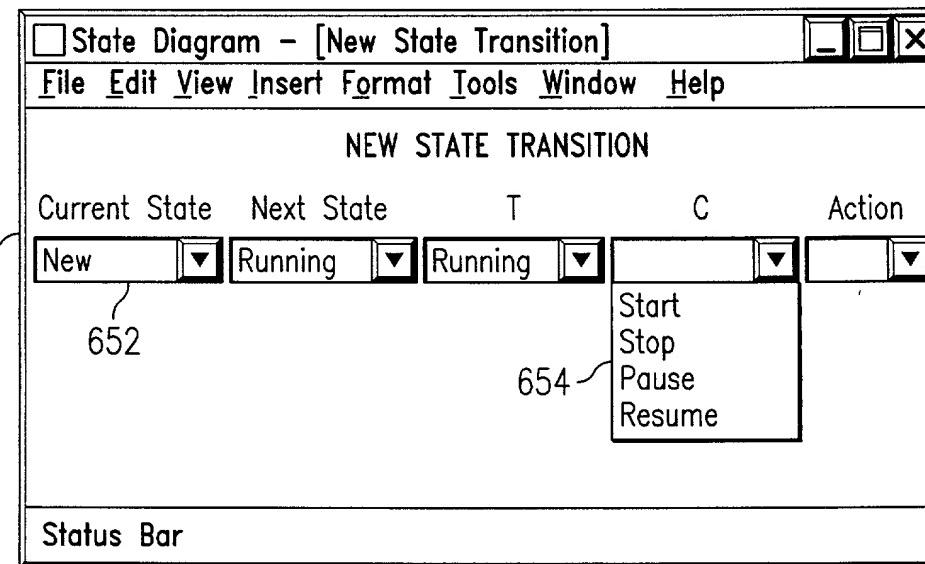


FIG. 6D



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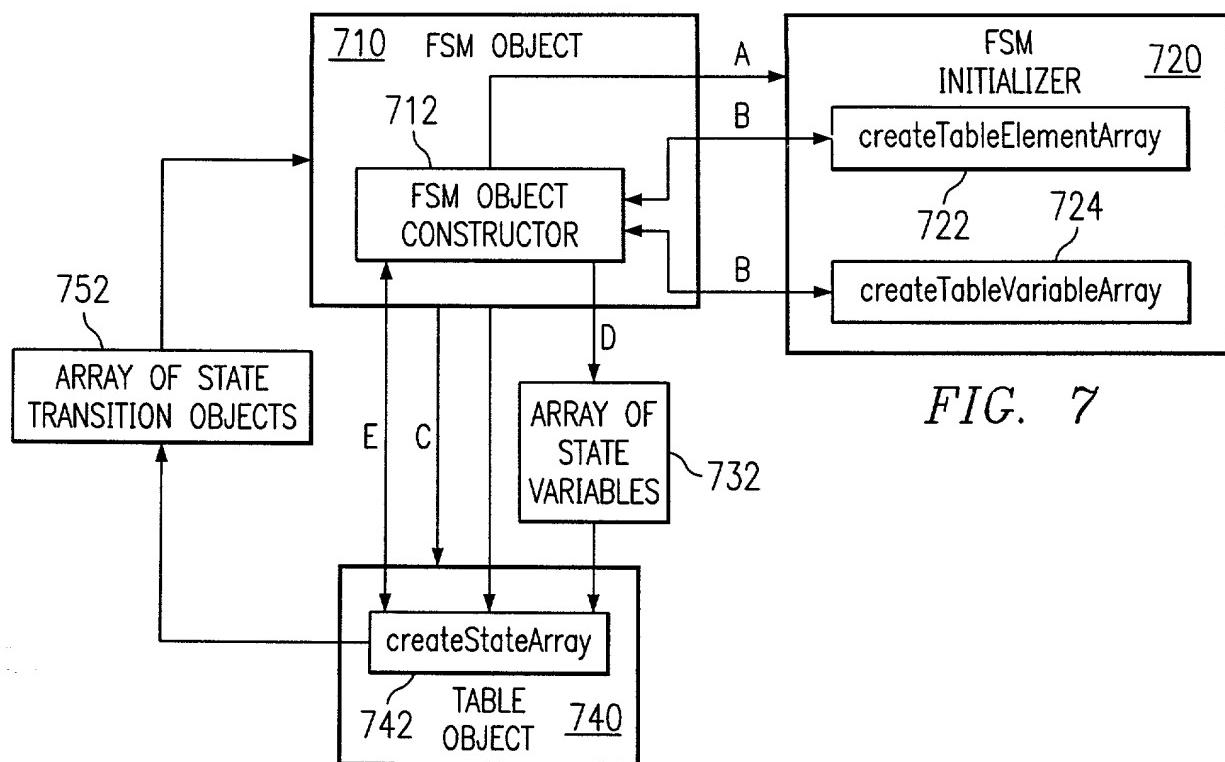


FIG. 7

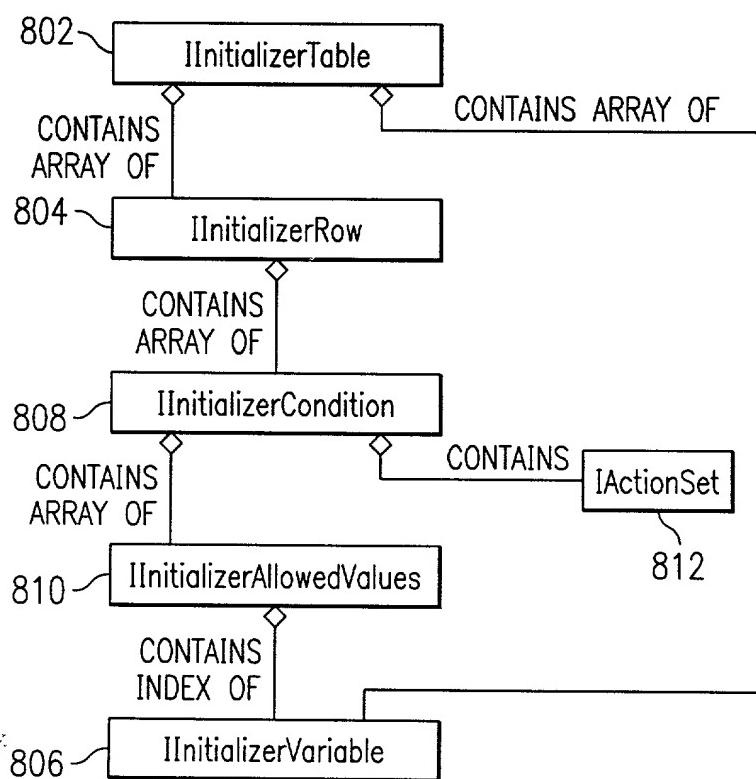
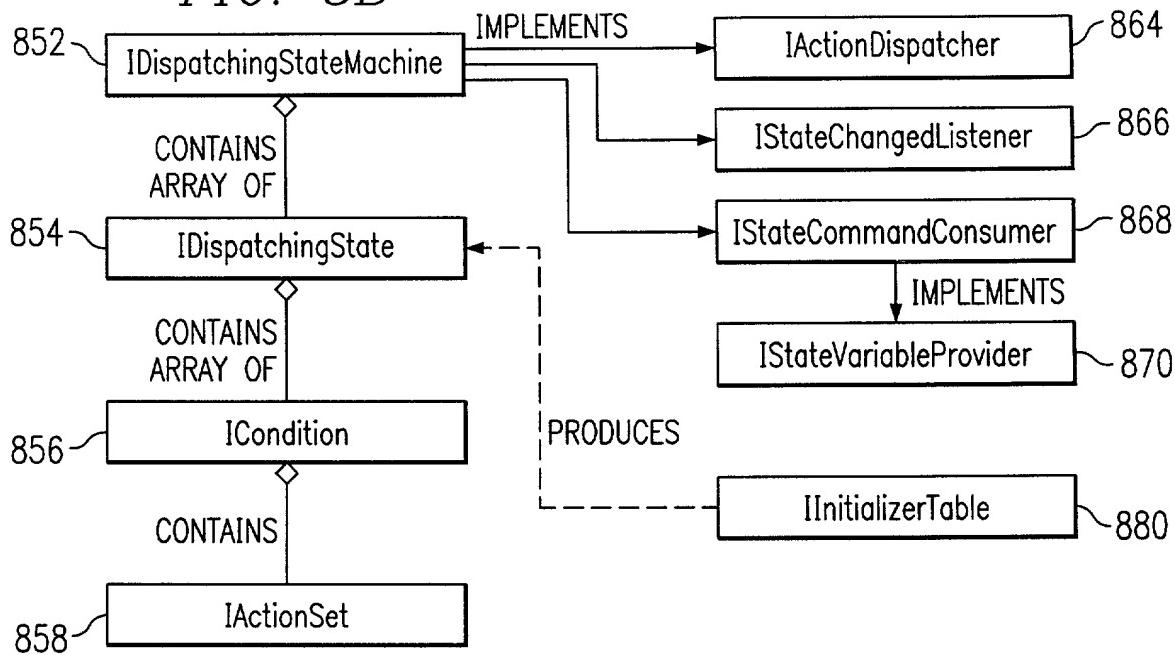


FIG. 8A

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FIG. 8B



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FIG. 9

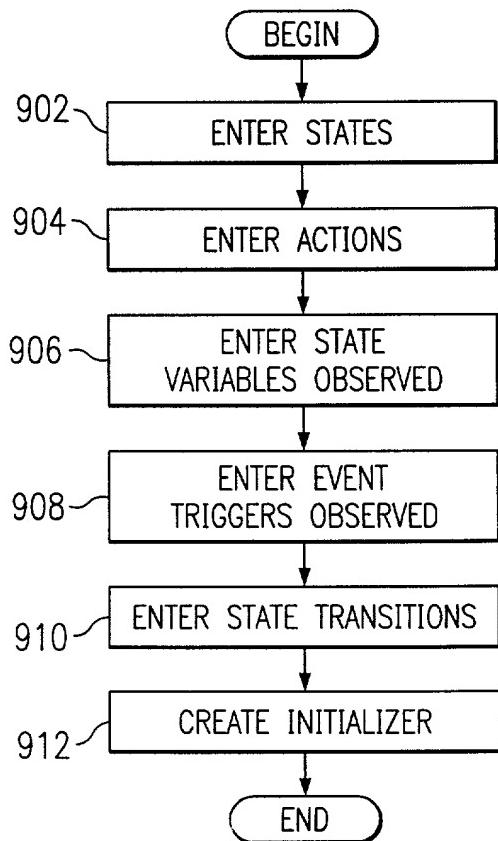


FIG. 10

